BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO DRAINS AND ROADS IN SAIVIHAR LAYOUT AND SURROUNDING AREAS IN HAROHALLI IN WARD NO.02 OF YELAHANKA SUB-DIVISION

Estimate Cost Rs. 25.00 Lakhs

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No 5/Item No 2.3)								
	Cum							
Saivihar Layout Main Road		1	207.00	1.00	1.00	207.00		
						207.00	200.34	**41470.38**
Basic Rate	189.00							
Area Weightage @ 6%	11.34							
Total	200.34							
KSRRB M200-24:- dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces no exceeding 0.02 Cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials separately complete as per specifications. MORTH specifications. No. 202, (P.No. 138/ Item No 18.47)								
	Cum							
Cross Road		1	100.00	4.00	0.20	80.00		
						80.00	827.86	**66228.80**
Basic Rate	781.00							
Area Weightage @ 6%	46.86							
Total	**827.86**							
KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, specification, No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
for Road	Cum							
Cross Road		1	100.00	4.00	0.20	80.00		
						80.00	166.42	**13313.60**
Basic Rate	157.00							
Area Weightage @ 6%	9.42							
Total	**166.42**							
KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
	Cum							
			Qty Vide Item No.1+2+3			**367.00**	100.00	**36700.00**
Average Weight of Earth 1.28 Tonne/Km								

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
Add loading and unloading Item No 17.1)	68.00							
Total	**100.00**							

KSRB 4-1.3 Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)

Cum

Sawhar Layout Main Road	1	207.00	1.00	0.15	31.05		
Cross Road	1	100.00	4.00	0.15	60.00		
					91.05	5159.02	**469728.77**

Basic Rate	4867.00
Area Weightage @ 6%	292.02
Total	**5159.02**

Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200. -do- Wall and bottom thickness 15cm (P No.265 / It.No 37.59)

Cum

bed	1	207.00	1.00	0.15	31.05		
Side wall	2	207.00	0.15	0.60	37.26		
					68.31	11032.48	**753628.71**

Basic Rate	10408.00
Area Weightage @ 6%	624.48
Total	**11032.48**

KSRB 4.9.2. Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT Bars Fe 500 P 17/It.No 4.46.2

tonne

60% of Qty Vide Item no.6					in Qtl	40.9860	
					in tonne	**4.0986**	74915.50	**307048.67**

Basic Rate	70675.00
Area Weightage @ 6%	4240.50
Total	**74915.50**

Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20** mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete

Sqm

Sawhar Layout Main Road	1	207.00	0.90		186.30		
					186.30	2100.00	**391230.00**

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Data Rate 2100.00								
Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
for road	Cum							
Cross Road		1	100.00	4.00	0.15	60.00		
						60.00	6231.74	**373904.40**
Basic Rate	5879.00							
Area Weightage @ 6%	352.74							
Total	**6231.74**							
Vaccum De-watering with vaccum pump and suction mat and compaction with power floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift. (P.177/ I.22.7)								
for road	Sqm							
		1	100.00	4.00		400.00		
						400.00	95.40	**38160.00**
Basic Rate	90.00							
Area Weightage @ 6%	5.40							
Total	**95.40**							
Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc.,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)								
for road	m							
		12	4.00			48.00		
						48.00	121.90	**5851.20**
Basic Rate	115.00							
Area Weightage @ 6%	6.90							
Total	**121.90**							
Miscellaneous and unforeseen charges								2735.00
						Grand Total Amount		2500000.00

(Rupees Twenty Five Lakhs Only)

TIFICATE

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.02

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Administrative Approval
Accorded For 25.00 lakhs
Head of A/C P3332
CER NO : 185 Dt: 27.12.17

Executive Engineer
Yelahanka Division
B.B.M.P

TA CE (YNK)

Technical Sanction
Accorded For 25.00 lakh Rs
Head of A/C P3332
CER NO : 442 Dt: 27/12/17

TA CE (YNK)

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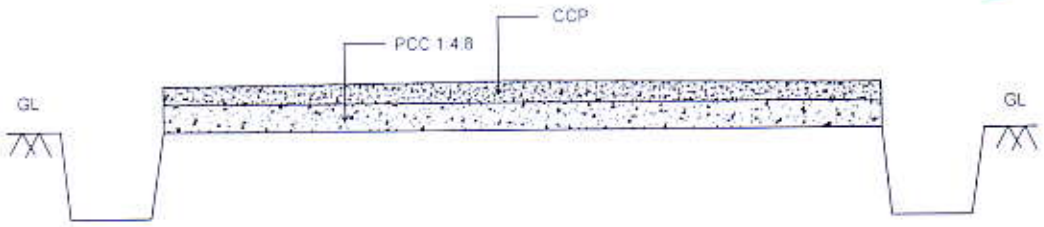

TYPICAL CROSS SECTION OF CC ROAD

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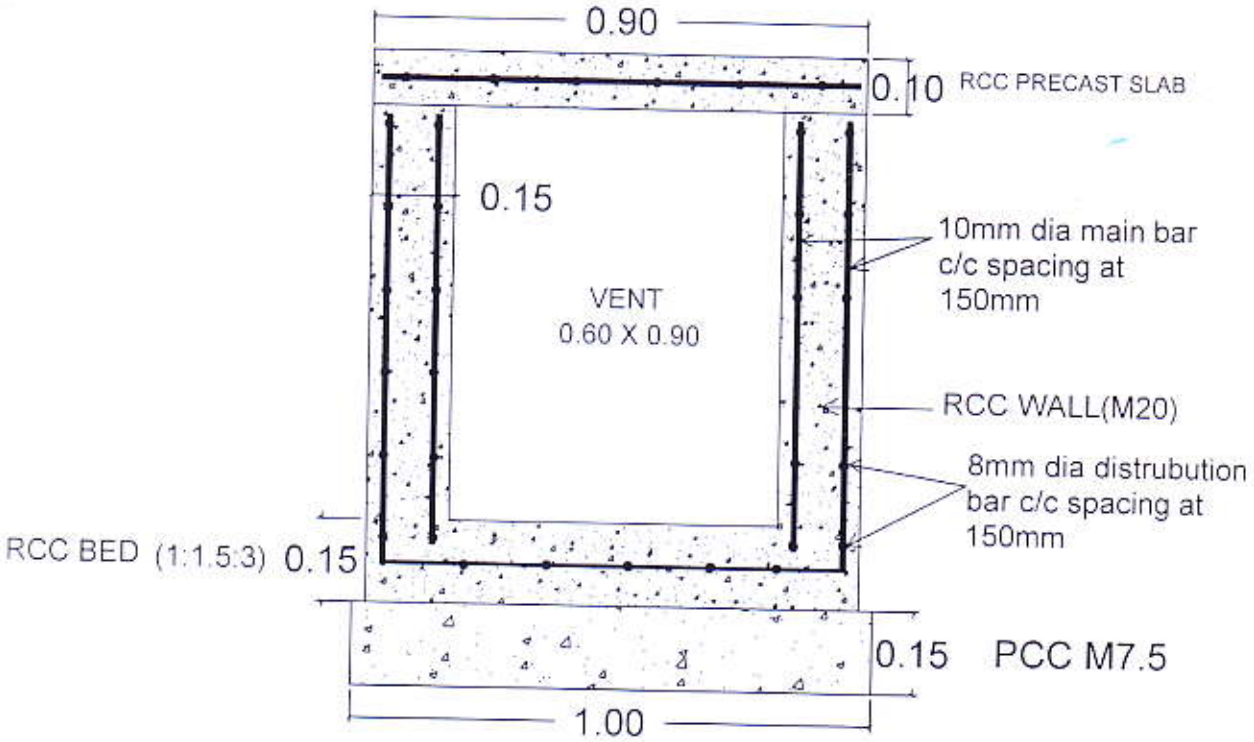

CROSS SECTION OF RCC DRAIN

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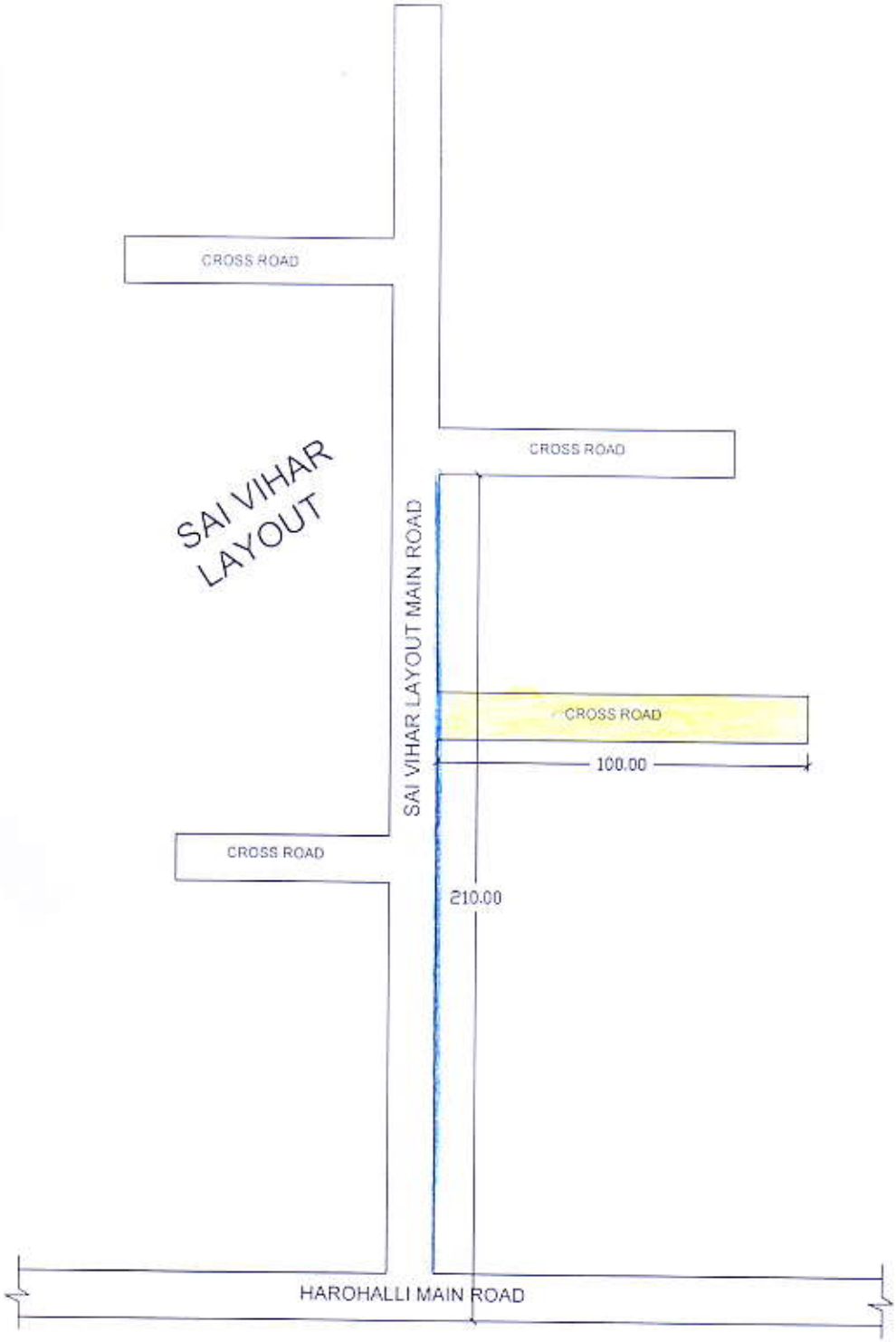
KEY : NOT TO SCALE



INDEX

- RCC DRAIN
- CC ROAD

Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P